Marshall, Vanessa

From: Shephard, Burt
Sent: Tuesday, May 23, 2017 10:39 AM
To: Richmond, Brent; Bachman, Brenda
Subject: RE: Field Sampling plan questions

Brent,
No on both the QC and equipment rinsate samples. These samples are strictly for the toxicity testing of ambient Discovery Bay waters, not for chemical analyses other than the usual pH, temp., D.O. and salinity analyses normally performed as part of any toxicity test of marine waters.
Alpha bottle sounds as though it will work fine for collecting the samples we need.
Best regards,

Burt Shephard
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U.S. Environmental Protection Agency, Region 10
1200 6th Avenue
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Telephone: (206) 553-6359
Fax: (206) 553-0119

e-mail: Shephard.Burt@epa.gov

"Facts are stubborn things, but statistics are more pliable"
- Mark Twain

From: Richmond, Brent
Sent: Tuesday, May 23, 2017 10:35 AM
To: Shephard, Burt ; Bachman, Brenda
Subject: RE: Field Sampling plan questions
Thanks Burt that should fill in the blanks.
We'll just ice them a little, small bag to get them back to lab in case it is really warm outside. I will push you into using the water sample bottle(alpha bottle). We have a 3.5 liter version that will get what we need in one shot. A pump will require us either anchoring or hold a position with the boat for a good amount of time. However, I can bring both. As far as field measurements, that's up to you, and I won't bother if you already have to do that in the lab.
Was there any QC samples? Like a background sample or equipment rinses needed?
Brent

From: Shephard, Burt
Sent: Tuesday, May 23, 2017 10:21 AM
To: Richmond, Brent <Richmond.Brent@epa.gov>; Bachman, Brenda <bachman.brenda@epa.gov>
Subject: RE: Field Sampling plan questions
Brent,
Poly one liter bottles will work just fine. Three liters per station, two stations (Port Discovery Seafarms and Snow Creek oysters), so six liters total. Ice for preservation will be fine, although the samples cannot be frozen, we'll have to warm them up to 20°C in the lab before we start the toxicity testing. No preservatives need to be added to the water samples. Sample collection depths differ at the two stations. The Port Discovery water intake should be less than 10 feet deep according to the owner. Snow Creek oysters are on submerged racks about 60 feet below the water surface. Does your

peristaltic pump draw water from that depth? If not, we'll use the horizontal alpha bottle we discussed earlier. I'm wondering if to be safe we bring both the water bottle and the peristaltic pump out in the field?
We could measure water temperature, pH, D.O. and salinity in the field, although it's not a requirement of the QAPP. We will also measure these parameters in the laboratory at test initiation for the toxicity tests. The QAPP currently calls for measurements only at test initiation for the toxicity tests. Given the short time between field collection and start of the toxicity tests, I doubt much will change except for water temperature. So unless you feel a need for field measurements, I suggest we not bother with field meters.
Best regards,

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From: Richmond, Brent
Sent: Tuesday, May 23, 2017 9:04 AM
To: Bachman, Brenda <bachman.brenda@epa.gov>; Shephard, Burt <Shephard.Burt@epa.gov>
Subject: Field Sampling plan questions
Ok so I'm going to be firing you some questions as I they come to me.
How much water are we collecting and what special precautions do we need to take. Iced? What type of container glass, poly and amber or clear and size. I'm going to guess no preservation other than maybe the ice.
Are we taking insitu field measurements?
Thank you
Brent Richmond
Environmental Protection Specialist
Lead Boat Operator
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US Environmental Protection Agency